

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number  
**WO 2005/028341 A1**

(51) International Patent Classification<sup>7</sup>: **B65G 17/08**  
(21) International Application Number:  
PCT/NL2004/000659

(22) International Filing Date:  
23 September 2004 (23.09.2004)

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:  
1024361 23 September 2003 (23.09.2003) NL

(71) Applicant (for all designated States except US):  
**REXNORD FLATTOP EUROPE B.V.** [NL/NL];  
Einsteinstraat 1, NL-2691 GV 's-Gravenzande (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MENKE, CORNELIS, HENDRIK, MYNDERT** [NL/NL]; Molstraat 27, NL-2611 EM Delft (NL). **VERDUJN, GLISBERTUS, JOHANNES** [NL/NL]; Zeggelaan 77, NL-4844 SC Terheijden (NL).

(74) Agent: **WINCKELS, J., H., F.**; Vereenigde, Johan de Witlaan 7, NL-2517 JR Den Haag (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

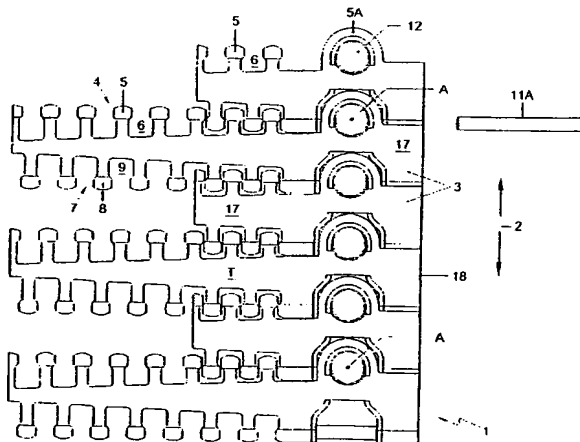
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MODULAR CONVEYOR MAT



(57) Abstract: A conveyor belt (1), comprising a number of plastic modules (3) successive in conveying direction (2) which are each provided at a front and rear side (4, 7) with a row of projections (5, 8) extending transversely to the conveying direction (2), provided with hinge holes with recesses (6, 9) located therebetween, the projections (5, 8) cooperating with recesses (6, 9) of adjoining modules, while hinge loops of successive modules (3) are coupled with the aid of hinge pins, extending through the hinge holes, transversely to the transport direction (2), the hinge pins being included with clearance in oversize hinge holes of projections (5, 8) at the front and/or the rear side (4, 7). At least two successive modules (3) are interconnected via an intermediate element (12) borne on a hinge pin (11A) and bearing mounted so as to be pivotal relative to a pivot (A) substantially transverse to the hinge pin (11A) in a bearing opening formed in one of the modules (3).

WO 2005/028341 A1